

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/528,031  
Source: PT/10  
Date Processed by STIC: 3/25/05

# **ENTERED**

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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/528,031**

**DATE: 03/25/2005**  
**TIME: 09:09:11**

**Input Set : A:\PTO.SR.txt**  
**Output Set: N:\CRF4\03252005\J528031.raw**

3 <110> APPLICANT: ORIDIS BIOMED Forschungs- und Entwicklungs GmbH  
 4       Guelly, Christian  
 5       Buck, Charles R.  
 6       Zatloukal, Kurt  
 8 <120> TITLE OF INVENTION: Polypeptides and nucleic acids encoding these and their use  
 for the  
 9       prevention, diagnosis or treatment of liver disorders and epithelial cancer  
 11 <130> FILE REFERENCE: Oridis Biomed  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/528,031  
 C--> 14 <141> CURRENT FILING DATE: 2005-03-16  
 16 <160> NUMBER OF SEQ ID NOS: 73  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 654  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Homo sapiens  
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 31 Glu Ser Thr Asp Gly Met Ile Leu Gly Pro Glu Asp Leu Ser Tyr Gln  
 32               20               25               30  
 35 Ile Tyr Asp Val Ser Gly Glu Ser Asn Ser Ala Val Ser Thr Glu Asp  
 36               35               40               45  
 39 Leu Lys Glu Cys Leu Lys Lys Gln Leu Glu Phe Cys Phe Ser Arg Glu  
 40               50               55               60  
 43 Asn Leu Ser Lys Asp Leu Tyr Leu Ile Ser Gln Met Asp Ser Asp Gln  
 44 65               70               75               80  
 47 Phe Ile Pro Ile Trp Thr Val Ala Asn Met Glu Glu Ile Lys Lys Leu  
 48               85               90               95  
 51 Thr Thr Asp Pro Asp Leu Ile Leu Glu Val Leu Arg Ser Ser Pro Met  
 52               100              105              110  
 55 Val Gln Val Asp Glu Lys Gly Glu Lys Val Arg Pro Ser His Lys Arg  
 56               115              120              125  
 59 Cys Ile Val Ile Leu Arg Glu Ile Pro Glu Thr Thr Pro Ile Glu Glu  
 60               130              135              140  
 63 Val Lys Gly Leu Phe Lys Ser Glu Asn Cys Pro Lys Val Ile Ser Cys  
 64 145              150              155              160  
 67 Glu Phe Ala His Asn Ser Asn Trp Tyr Ile Thr Phe Gln Ser Asp Thr  
 68               165              170              175  
 71 Asp Ala Gln Gln Ala Phe Lys Tyr Leu Arg Glu Glu Val Lys Thr Phe  
 72               180              185              190  
 75 Gln Gly Lys Pro Ile Met Ala Arg Ile Lys Ala Ile Asn Thr Phe Phe  
 76               195              200              205  
 79 Ala Lys Asn Gly Tyr Arg Leu Met Asp Ser Ser Ile Tyr Ser His Pro

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**Output Set: N:\CRF4\03252005\J528031.raw**

80	210	215	220	
83	Ile Gln Thr Gln Ala Gln Tyr Ala Ser Pro Val Phe Met Gln Pro Val			
84	225	230	235	240
87	Tyr Asn Pro His Gln Gln Tyr Ser Val Tyr Ser Ile Val Pro Gln Ser			
88	245	250	255	
91	Trp Ser Pro Asn Pro Thr Pro Tyr Phe Glu Thr Pro Leu Ala Pro Phe			
92	260	265	270	
95	Pro Asn Gly Ser Phe Val Asn Gly Phe Asn Ser Pro Gly Ser Tyr Lys			
96	275	280	285	
99	Thr Asn Ala Ala Ala Met Asn Met Gly Arg Pro Phe Gln Lys Asn Arg			
100	290	295	300	
103	Val Lys Pro Gln Phe Arg Ser Ser Gly Gly Ser Glu His Ser Thr Glu			
104	305	310	315	320
107	Gly Ser Val Ser Leu Gly Asp Gly Gln Leu Asn Arg Tyr Ser Ser Arg			
108	325	330	335	
111	Asn Phe Pro Ala Glu Arg His Asn Pro Thr Val Thr Gly His Gln Glu			
112	340	345	350	
115	Gln Thr Tyr Leu Gln Lys Glu Thr Ser Thr Leu Gln Val Glu Gln Asn			
116	355	360	365	
119	Gly Asp Tyr Gly Arg Gly Arg Arg Thr Leu Phe Arg Gly Arg Arg Arg			
120	370	375	380	
123	Arg Glu Asp Asp Arg Ile Ser Arg Pro His Pro Ser Thr Ala Glu Ser			
124	385	390	395	400
127	Lys Ala Pro Thr Pro Lys Phe Asp Leu Leu Ala Ser Asn Phe Pro Pro			
128	405	410	415	
131	Leu Pro Gly Ser Ser Ser Arg Met Pro Gly Glu Leu Val Leu Glu Asn			
132	420	425	430	
135	Arg Met Ser Asp Val Val Lys Gly Val Tyr Lys Glu Lys Asp Asn Glu			
136	435	440	445	
139	Glu Leu Thr Ile Ser Cys Pro Val Pro Ala Asp Glu Gln Thr Glu Cys			
140	450	455	460	
143	Thr Ser Ala Gln Gln Leu Asn Met Ser Thr Ser Ser Pro Cys Ala Ala			
144	465	470	475	480
147	Glu Leu Thr Ala Leu Ser Thr Thr Gln Gln Glu Lys Asp Leu Ile Glu			
148	485	490	495	
151	Asp Ser Ser Val Gln Lys Asp Gly Leu Asn Gln Thr Thr Ile Pro Val			
152	500	505	510	
155	Ser Pro Pro Ser Thr Thr Lys Pro Ser Arg Ala Ser Thr Ala Ser Pro			
156	515	520	525	
159	Cys Asn Asn Asn Ile Asn Ala Ala Thr Ala Val Ala Leu Gln Glu Pro			
160	530	535	540	
163	Arg Lys Leu Ser Tyr Ala Glu Val Cys Gln Lys Pro Pro Lys Glu Pro			
164	545	550	555	560
167	Ser Ser Val Leu Val Gln Pro Leu Arg Glu Leu Arg Ser Asn Val Val			
168	565	570	575	
171	Ser Pro Thr Lys Asn Glu Asp Asn Gly Ala Pro Glu Asn Ser Val Glu			
172	580	585	590	
175	Lys Pro His Glu Lys Pro Glu Ala Arg Ala Ser Lys Asp Tyr Ser Gly			
176	595	600	605	

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179 Phe Arg Gly Asn Ile Ile Pro Arg Gly Ala Ala Gly Lys Ile Arg Glu  
180 610 615 620  
183 Gln Arg Arg Gln Phe Ser His Arg Ala Ile Pro Gln Gly Val Thr Arg  
184 625 630 635 640  
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188 645 650  
191 <210> SEQ ID NO: 2  
192 <211> LENGTH: 72  
193 <212> TYPE: PRT  
194 <213> ORGANISM: Homo sapiens  
196 <400> SEQUENCE: 2  
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199 1 5 10 15  
202 Glu Thr Arg Ala Leu Phe Met Pro Arg Glu Asp Thr Ala Arg Pro Gln  
203 20 25 30  
206 Ser Ala Ser Gln Glu Glu Ser Ser Arg Glu Pro Asp His Ala Gly Thr  
207 35 40 45  
210 Leu Ile Val Asp Ile Ser Thr Ser Arg Thr Val Ile Gln Asn Ala Tyr  
211 50 55 60  
214 Val Ser Leu Glu Glu Thr Leu Lys  
215 65 70  
218 <210> SEQ ID NO: 3  
219 <211> LENGTH: 367  
220 <212> TYPE: PRT  
221 <213> ORGANISM: Homo sapiens  
223 <400> SEQUENCE: 3  
225 Met Leu Pro Pro Arg Arg Leu Gln Thr Leu Leu Arg Gln Ala Val Glu  
226 1 5 10 15  
229 Leu Gln Arg Asp Arg Cys Leu Tyr His Asn Thr Lys Leu Asp Asn Asn  
230 20 25 30  
233 Leu Asp Ser Val Ser Leu Leu Ile Asp His Val Cys Ser Arg Arg Gln  
234 35 40 45  
237 Phe Pro Cys Tyr Thr Gln Gln Ile Leu Thr Glu His Cys Asn Glu Val  
238 50 55 60  
241 Trp Phe Cys Lys Phe Ser Asn Asp Gly Thr Lys Leu Ala Thr Gly Ser  
242 65 70 75 80  
245 Lys Asp Thr Thr Val Ile Ile Trp Gln Val Asp Pro Asp Thr His Leu  
246 85 90 95  
249 Leu Lys Leu Leu Lys Thr Leu Glu Gly His Ala Tyr Gly Val Ser Tyr  
250 100 105 110  
253 Ile Ala Trp Ser Pro Asp Asp Asn Tyr Leu Val Ala Cys Gly Pro Asp  
254 115 120 125  
257 Asp Cys Ser Glu Leu Trp Leu Trp Asn Val Gln Thr Gly Glu Leu Arg  
258 130 135 140  
261 Thr Lys Met Ser Gln Ser His Glu Asp Ser Leu Thr Ser Val Ala Trp  
262 145 150 155 160  
265 Asn Pro Asp Gly Lys Arg Phe Val Thr Gly Gly Gln Arg Gly Gln Phe  
266 165 170 175  
269 Tyr Gln Cys Asp Leu Asp Gly Asn Leu Leu Asp Ser Trp Glu Gly Val

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270	180	185	190
273	Arg Val Gln Cys Leu Trp Cys Leu Ser Asp Gly Lys Thr Val Leu Ala		
274	195	200	205
277	Ser Asp Thr His Gln Arg Ile Arg Gly Tyr Asn Phe Glu Asp Leu Thr		
278	210	215	220
281	Asp Arg Asn Ile Val Gln Glu Asp His Pro Ile Met Ser Phe Thr Ile		
282	225	230	235
285	Ser Lys Asn Gly Arg Leu Ala Leu Leu Asn Val Ala Thr Gln Gly Val		
286	245	250	255
289	His Leu Trp Asp Leu Gln Asp Arg Val Leu Val Arg Lys Tyr Gln Gly		
290	260	265	270
293	Val Thr Gln Gly Phe Tyr Thr Ile His Ser Cys Phe Gly Gly His Asn		
294	275	280	285
297	Glu Asp Phe Ile Ala Ser Gly Ser Glu Asp His Lys Val Tyr Ile Trp		
298	290	295	300
301	His Lys Arg Ser Glu Leu Pro Ile Ala Glu Leu Thr Gly His Thr Arg		
302	305	310	315
305	Thr Val Asn Cys Val Ser Trp Asn Pro Gln Ile Pro Ser Met Met Ala		
306	325	330	335
309	Ser Ala Ser Asp Asp Gly Thr Val Arg Ile Trp Gly Pro Ala Pro Phe		
310	340	345	350
313	Ile Asp His Gln Asn Ile Glu Glu Glu Cys Ser Ser Met Asp Ser		
314	355	360	365
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318	<211> LENGTH: 188		
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320	<213> ORGANISM: Homo sapiens		
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328	Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp		
329	20	25	30
332	Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu		
333	35	40	45
336	Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe		
337	50	55	60
340	Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe		
341	65	70	75
344	Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg		
345	85	90	95
348	Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu		
349	100	105	110
352	Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe		
353	115	120	125
356	Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu		
357	130	135	140
360	Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr		
361	145	150	155
364	Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Gly Ile		

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365	165	170	175
368 Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu			
369	180	185	
372 <210> SEQ ID NO: 5			
373 <211> LENGTH: 398			
374 <212> TYPE: PRT			
375 <213> ORGANISM: Homo sapiens			
377 <400> SEQUENCE: 5			
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383 Asp Pro Gly Arg Phe Leu His Met Gly Thr Gln Ala Arg Gln Ser Ile			
384	20	25	30
387 Ala Ala His Leu Asp Asn Gln Val Pro Val Glu Ser Pro Arg Ala Ile			
388	35	40	45
391 Ser Arg Thr Asn Glu Asn Asp Pro Ala Lys His Gly Asp Gln His Glu			
392	50	55	60
395 Gly Gln His Tyr Asn Ile Ser Pro Gln Asp Leu Glu Thr Val Phe Pro			
396 65	70	75	80
399 His Gly Leu Pro Pro Arg Phe Val Met Gln Val Lys Thr Phe Ser Glu			
400	85	90	95
403 Ala Cys Leu Met Val Arg Lys Pro Ala Leu Glu Leu Leu His Tyr Leu			
404	100	105	110
407 Lys Asn Thr Ser Phe Ala Tyr Pro Ala Ile Arg Tyr Leu Leu Tyr Gly			
408	115	120	125
411 Glu Lys Gly Thr Gly Lys Thr Leu Ser Leu Cys His Val Ile His Phe			
412	130	135	140
415 Cys Ala Lys Gln Asp Trp Leu Ile Leu His Ile Pro Asp Ala His Leu			
416 145	150	155	160
419 Trp Val Lys Asn Cys Arg Asp Leu Leu Gln Ser Ser Tyr Asn Lys Gln			
420	165	170	175
423 Arg Phe Asp Gln Pro Leu Glu Ala Ser Thr Trp Leu Lys Asn Phe Lys			
424	180	185	190
427 Thr Thr Asn Glu Arg Phe Leu Asn Gln Ile Lys Val Gln Glu Lys Tyr			
428	195	200	205
431 Val Trp Asn Lys Arg Glu Ser Thr Glu Lys Gly Ser Pro Leu Gly Glu			
432	210	215	220
435 Val Val Glu Gln Gly Ile Thr Arg Val Arg Asn Ala Thr Asp Ala Val			
436 225	230	235	240
439 Gly Ile Val Leu Lys Glu Leu Lys Arg Gln Ser Ser Leu Gly Met Phe			
440	245	250	255
443 His Leu Leu Val Ala Val Asp Gly Ile Asn Ala Leu Trp Gly Arg Thr			
444	260	265	270
447 Thr Leu Lys Arg Glu Asp Lys Ser Pro Ile Ala Pro Glu Glu Leu Ala			
448	275	280	285
451 Leu Val His Asn Leu Arg Lys Met Met Lys Asn Asp Trp His Gly Gly			
452	290	295	300
455 Ala Ile Val Ser Ala Leu Ser Gln Thr Gly Ser Leu Phe Lys Pro Arg			
456 305	310	315	320
459 Lys Ala Tyr Leu Pro Gln Glu Leu Leu Gly Lys Glu Gly Phe Asp Ala			

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/528,031

DATE: 03/25/2005  
TIME: 09:09:12

Input Set : A:\PTO.SR.txt  
Output Set: N:\CRF4\03252005\J528031.raw

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date